



# Fuel Point Newsletter

Issue 6

Nov 04

## PM-PAWS - PQAS FIELDING IS UNDERWAY



Gone are the days of spillage, broken glassware, hard to get chemicals, equipment that nobody knows how to fix. These irritating troubles have been replaced with plastic beakers, chemicals used only for cleaning, a paperless lab, and automated fuel testing equipment. The Petroleum Quality Analysis System (PQAS) has arrived.

Leading Today's Army into the 21<sup>st</sup> Century; PQAS is a petroleum quality surveillance laboratory capable of conducting B-3 level tests on Aviation Turbine and Diesel fuel. PQAS is mounted on a HMMWV and has a trailer to transport much needed support equipment such as chemicals, supplies and a tent designed especially for the system. It takes thirty minutes for a two person team to set the PQAS into operation, including the tent. First fielding of the system was in October 04 and will be deployed in support of OIF by the end of 04.

The shelter contains a laptop computer, automated fuel testing equipment, supplies and a self-contained combination 10K generator and Environmentally Controlled Unit (ECU). The laptop includes software designed to log samples and receive data from the testing equipment. The automated fuel testing equipment decreases the sample testing time from 5 hours to one and a half hours. Automated fuel testing equipment includes: mini-flash point, distillation, density and freezing point. Manual tests include; Particulate Contaminate, FSII, Electric Conductivity, Micro-Separometer, and the Aqua-Glo test. The combination 10K Generator and ECU are user friendly, computerized, and quiet enough to have a conversation when you're standing next to it.



PQAS, meeting the needs of future force, TODAY!

## Lab Certification



FYI, AR 710-2 Inventory Management Supply Policy was updated effective 25 Feb 04. The lab certification section in App C now identifies requirements for a senior lab NCO in theater, to perform OCONUS certifications. In order to maintain control of the process, we are requesting that the reviewing NCO's forward their trip report with approval or disapproval recommendation to us so we can prepare the memo and certificate if the lab was approved by the reviewing NCO. This way we can maintain historical records, monitor participation in a correlation program, and provide the updates on what labs are certified.

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## SAFETY ISSUES AND FUTURE REQUIREMENTS FOR THE SOLDIERS

Good news for our petroleum and laboratory Soldiers!!! On 19 Oct 04, DCD-QM attended a meeting with the Assistant Product Manager (APM) for protective clothing out of Fort Belvoir to discuss Fuel Handlers Coveralls (FHC). Also in attendance were the Product Engineer out of Natick, the manufacturer for the current Air Force Fuel Handler Coveralls, and the Marine Corps Combat Developers. The Coveralls are being developed under the Soldier Enhancement Program and expect to be fielded in FY 06. The APM approved a one-time purchase of 100 sets of coveralls for a limited user evaluation while the CDD is being finalized. These 100 coveralls will be manufactured using the lightest tan from the new all-terrain camouflage pattern and are expected to be delivered early in 2d QTR FY 05. DCD-QM requested 50 sets go to one of the Stryker Brigades, with the other sets provided to a variety of units, to include the Quartermaster Center and School, the 49th Group, the 475th Petroleum Group (USAR), and at least one CENTCOM site. Five earlier prototype sets are already in Iraq issued to an aviation refueling unit for user feedback in the near-term.

### Another message of SAFETY...

The photo on the left was taken during a test where a 20K bag filled with water was cut open to see if a new containment system would work as designed.



**Is there an excuse for not wearing the proper safety equipment – it could save your life....think about it.**

NSN's for the harness (4240-00-022-2522, cost is \$70.87) and the lanyard (4240-00-022-2521, cost \$43.64)

Small price to pay

## NEW SPECIFICATION UPDATE SYSTEM

Good News! The Acquisition Streamlining and Standardization Information Systems (ASSIST), offers a service called ALERT. The system will notify you via email when a publication that applies to a federal supply classification (FSC) has been updated.

**Example:** The National Stock Number for JP8 is **9130-01-031-5816**. The FSC is therefore **9130**. By requesting alerts on the FSC 9130 you would be notified via email when the specification for JP8 (MIL-DTL-83133) is changed, superceded, etc. Note that for petroleum related military standards and military handbooks; i.e., MIL-STD-3004 you would request alerts for the group 91G. FSCs for package petroleum and chemical specialty products include 6810, 6850, 68GP, and 9150. You can sign up for the ASSIST ALERT at <http://assist1.daps.dla.mil/online/start/>.

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## CONVERTING TANKS TO BIODIESEL (B20) AND/OR FUEL ETHANOL (E85)

Biodiesel and petrodiesel fuel are very compatible and conversion from one to the other is a simple process. The existing diesel tank should be drawn down as far as operations will allow. The drawdown also provides a good opportunity to have the tank cleaned if necessary. Biodiesel product can be received directly into the drawn down storage tank and reclassified as B20. Due to the increased solvent characteristics of B20, fuel filters on the vehicles and in the delivery system should be checked frequently upon initial use, and changed as necessary. Also, wipe spills from painted surfaces immediately when using biodiesel. Like conventional diesel, B20 gets sluggish in cold weather so take precautions as with #2 petrodiesel use in cold weather. B20 also has some long term storage stability issues, so it is best to use stored biodiesel within six months.

Conversion from MOGAS to E85 is a bit more complicated. E85 can be stored in existing aboveground or underground tanks of cold-finished or butt-welded steel construction. Fiberglass tanks should not be used with E85 unless they are lined with chemical-grade rubber to prevent the fuel from contacting the fiberglass. Any storage or dispensing components made from zinc, brass, lead, aluminum or other soft metals should be replaced or avoided when converting an old gasoline tank, or planning for a new E85 tank. Approved materials for E85 dispensing nozzles, fittings and piping are, nickel-plated aluminum, stainless steel, or black iron respectively. Dispensing hoses for E85 should be chosen according to the type of vapor recovery system used, and should be approved for use with ethanol or methanol products. After the hardware concerns are addressed, E85 can be introduced by the “draw-down then receive” method listed above for B20.

Prior to any conversion to alternative fuels, activities should contact their IMA region office for coordination and ask that they contact the Army Petroleum Center for technical assistance, contract fuel requirements, and potential DLA funding. Points of contact at the Army Petroleum Center are as follows:

-- For technical information on the alternative fuels program, Mr. Del Leese/DSN 771-8580, Comm (717) 770-8580/ [dleese@usapc-emh1.army.mil](mailto:dleese@usapc-emh1.army.mil)

-- For assistance in fuel facility design, modification and planning, Mr. James Hugar/DSN 427-0648, Comm (703) 767-0648/ [james.hugar@dla.mil](mailto:james.hugar@dla.mil)

-- For contract fuel requirement assistance, Mr. Phil Richards/DSN 771-7040, Comm (717) 770-7040/ [prichard@usapc-emh1.army.mil](mailto:prichard@usapc-emh1.army.mil)

- For quality surveillance support, Mr. Gary Smith/DSN 427-0659, Comm (703) 767-0659/ [gary.smith@dla.mil](mailto:gary.smith@dla.mil)

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## AMERICAN PETROLEUM INSTITUTE AWARDS

The Army Petroleum Center hosted the 1<sup>st</sup> Annual American Petroleum Institute Awards ceremony on 27 September 2004 at the Crystal City Hyatt Regency hotel to recognize excellence in petroleum management and operations in the United States Army.

This was the inaugural year of the Army API awards. The Army Petroleum Center and API worked closely together to develop a prestigious and recognizable symbol that embodies the professionalism and dedication to mission demonstrated by the award winners. Awards were presented in two categories: The Best Fixed Facility Operation in the Army and Outstanding Individual Performance in support of fixed facility operations.

The American Petroleum Institute is an internationally recognized trade organization representing the U.S. oil and natural gas industry. Mr. Red Cavaney, President and CEO of API, presided over the ceremony.

The API Trophy to Recognize Excellence in Army Fixed Facility Operations was awarded to the 505<sup>th</sup> Quartermaster BN, Okinawa, Japan. The 505<sup>th</sup> operates a very complex theater asset on a daily basis. A well orchestrated continual series of events must happen on a huge scale just in the normal course of doing business, not considering exercises, or urgent, real world operations. It takes a dedicated group of military and civilian personnel to ensure safe, uninterrupted operation of the pipeline distribution system.



The first ever Army API award to recognize individual performance ended in a tie; Ms. Pat Quintana of Fort Huachuca, AZ and Mr. Kenneth Hoff, 505<sup>th</sup> Quartermaster BN, Okinawa, Japan.

Pat distinguished herself by the effort and desire she directed towards fuel support at Fort Huachuca. Pat has many other responsibilities within the Directorate of Installation Support but she has truly made the fuels area one of her top priorities. Her accomplishments have been a catalyst to improving fuels infrastructure throughout Fort Huachuca. Fort Huachuca's fuel posture would not be at the high level it is today without the direct oversight of Ms. Quintana.

Ken has been a driving force in the superb performance of the 505<sup>th</sup> Quartermaster BN's petroleum distribution operation. Ken is a pipeline and terminal maintenance expert. He is totally dedicated to planning, coordinating, directing and administering the entire maintenance effort for the military pipeline system in Okinawa. He has spearheaded a combined effort throughout the region that has resulted in a pipeline system capable of sustaining several separate bases simultaneously, as well as any necessary expeditionary movements.





The *USAPC Coin of Excellence* was awarded to....



COL Sam Calderon, APC Director, presented the Coin of Excellence award to the DESC-E Kaiserslautern lab. The DESC-E Commander, COL Anthony Kazmierski accepted the award on behalf of the lab. The lab has been instrumental in providing support to OIF/OEF, as well as Operations in Bosnia and Kosovo.

#### **LEADERSHIP PROMOTION: US Army TACOM**



We are pleased to announce that Mr. John P. "Jack" Dugan has been selected as TACOM's new Director, Integrated Logistics Support Center (ILSC). Having performed these duties since the retirement of Tom Boyle in July 2003, he officially assumed the duties on a permanent basis on 31 Oct 04. Mr. Dugan has served as Director of the Logistics Integration Office, ILSC, since Oct 02. Prior to that he served in various positions in the ILSC arena, including Director, Heavy Combat Commodity Business Unit; Product Line Executive for Combat Vehicles; and Director of Readiness.

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#### **Army Petroleum Center**

APC sends a **HUGE** welcome to COL Samuel Calderon as our new Director. COL Calderon retired, as a civilian, from the Senior Executive Service in August 2003. He began his military career enlisting in the U.S. Army in 1967 and has held a variety of commands and staff assignments. His assignments include active duty with the Office of

the Secretary of Defense, Reserve Forces Policy Board, Commander, 475<sup>th</sup> Quartermaster Group in Farrell, Pennsylvania, Commander, 326<sup>th</sup> Maintenance Battalion in Owings Mills, Maryland, Commander, 2222<sup>nd</sup> Transportation Detachment, Operations Officer, 310th Theater Support Command, Officer in Charge for numerous Joint Chiefs of Staff exercises supporting Southern Command, two years as a Warrant Officer, and ten years enlisted service.

COL Calderon's decorations include the Meritorious Service Medal (with two Oak Leaf Clusters), Army Commendation Medal (with one Oak Leaf Cluster), Army Achievement Medal, Good Conduct Medal, and Vietnam Service Medal-with three bronze service stars as well as the Distinguished Civilian Service Award, the Meritorious Civilian Service Award, and the Commander's Award for Civilian Service.

He is the current National President of the Hispanic War Veterans of America.



## HAILS AND FAREWELL:

The APC has experienced quite a transition since the last **Fuel Point** publication mainly in saying goodbye to a few and hello to new!!! In this issue, we are privileged to recognize these people who have been, and are, a great asset to our fuels community.

COL 'Mel' Frazier completed his successful military career with over 29 years of service. He was selected as the Commander, 49<sup>th</sup> QM Group on 30 July 2001. Only 45 days into this assignment, COL Frazier was actively preparing the Group to support OEF. His adaptive leadership and diligent mentorship fostered a proactive team with a 'can do' winning style. After returning from his Command overseas, COL Frazier, at the request of his assignment Officer, postponed his retirement to become the Director of the APC in July 2003. As our Director, COL Frazier was instrumental in obtaining \$20M for fuels related construction projects, establishing a Liquid Logistics Council of Colonels and Co-chaired the Integrated Process Team on standardization of petroleum equipment and

training within DoD. Of major note was his long lasting achievement transitioning a major portion of the APC from New Cumberland, PA to FT Belvoir, VA. We thank you COL Frazier for your effectiveness in establishing the Army Petroleum Center of Excellence!



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#### APC WELCOMES:

SFC Renee Williams. SFC Renee K. Williams arrived at the US Army Petroleum Center on 23 Sept 04. SFC Williams will be working in the quality section with Mr. Gary Smith. Her background is in Petroleum Laboratory Operations. Her last duty assignment was with the 110<sup>th</sup> QM CO at Hunter Army Airfield, Georgia in addition to tours in Honduras, 49<sup>th</sup> QM GP at FT Lee, VA and Egypt. Her most recent tour prior to arriving at the APC was at the 260<sup>th</sup> QM BN in support of OEF/OIF operations.

Mr. Brad Norton (Ft. Belvoir) brings the APC 26 years of experience in fuels operations. His assignments include positions held at Craney Island Complex with the Naval Operations Base, Norfolk and Yorktown Fuel Facility. His most recent assignment, prior to his arrival at the APC, was Fuel Foreman at FT A.P. Hill, VA..

Mr. Jeffrey Simmons. Mr. Simmons spent 20 years in the US Marine Corps as a Bulk Fuel Specialist with tours at Camp Lejeune N.C. to Okinawa Japan, Cherry Point N.C., Norway, Honduras, Parris Island S.C. and Fort Lee. At FT Lee, Mr. Simmons was an Instructor for the Basic Petroleum Logistics Division. After retiring, Mr. Simmons worked as a Logistics Mgmt Specialist, GCSS-A and also as a Petroleum Supervisor for KBR in Uzbekistan and Afghanistan supporting Operation Enduring Freedom.

Mr. Samuel Williams. Served in the US Army from May 75 to May 95 and retired as a Property Book Non-Commission Officer. His civilian career began in July 1995 which includes assignments in Germany and then CONUS bound to FT Bragg, NC. He returned to Germany in 1998 for the 200<sup>th</sup> TAMMC Petroleum Management Division until April of this year when he arrived at the APC.

Ms. Cleo Tafoya. Ms. Tafoya is the new Chief, Product Assurance Division. She began her career with the US Army Corps of Engineers in 1991. Her responsibilities were



focused on environmental chemical data quality management and remedial design and construction project phases. Ms. Tafoya has also accepted positions overseas which include the 505<sup>th</sup> QM BN Petroleum Lab Chief. She brings with her exceptional performance in significantly improving Army lab operations at DESC-E Kaiserslautern and is a great asset to our agency.

Mr. Joe Hunnewell. Joe was active Army for 6 years and assigned to the 49<sup>th</sup> GP, FT Lee, VA and the DESC-E Petroleum Lab in K-Town, Germany. His lab assignment rendered critical support for OEF/OIF endeavors.

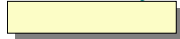
Welcome Aboard Brad, Jeffrey, Sam and Cleo and Renee!!!



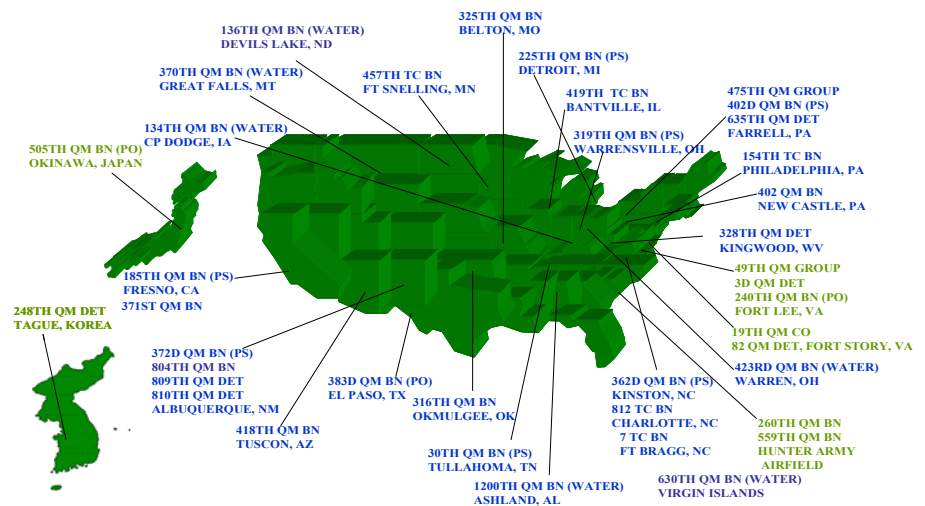
### Upcoming Events:

**19 Nov 04** Executive Agent - Core Steering Group meeting at DESC  
**14 Dec 04** PM – PAWS – RIFTS Summit at SWRI  
**7/9 Jan 05** QM Liquid Logistics Exercise – Mid Planning Workshop  
**9/10 Jan 05** APC and QMC&S POL Refresher Training at QLLEX MPW  
**TBD Mar 05** LLCofCs meeting at Fort Lee VA.

***FYI: Are you a fuel unit affiliated with the 49<sup>th</sup> QM Group (Petro and Water)?***



## 49<sup>th</sup> QM GP Affiliated Units



Not to Scale